

FIG. 1

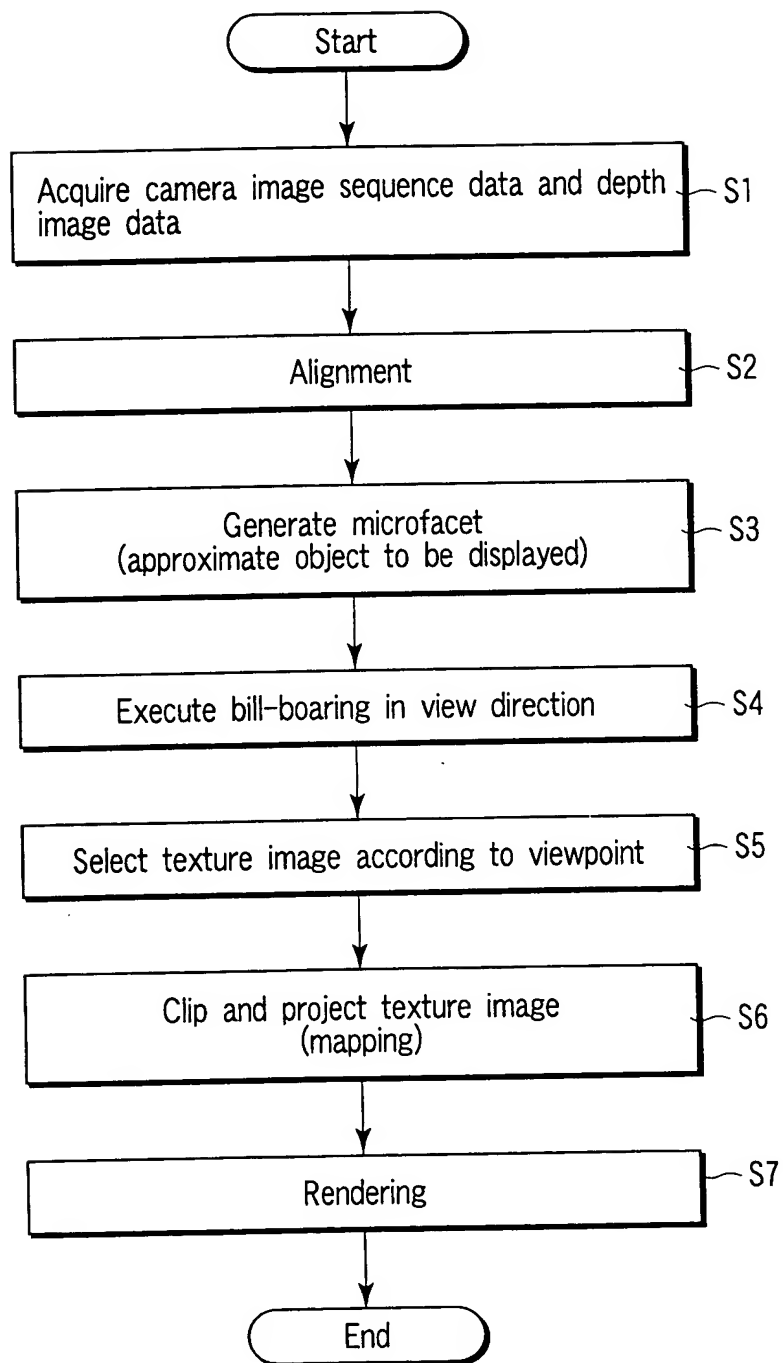


FIG. 2

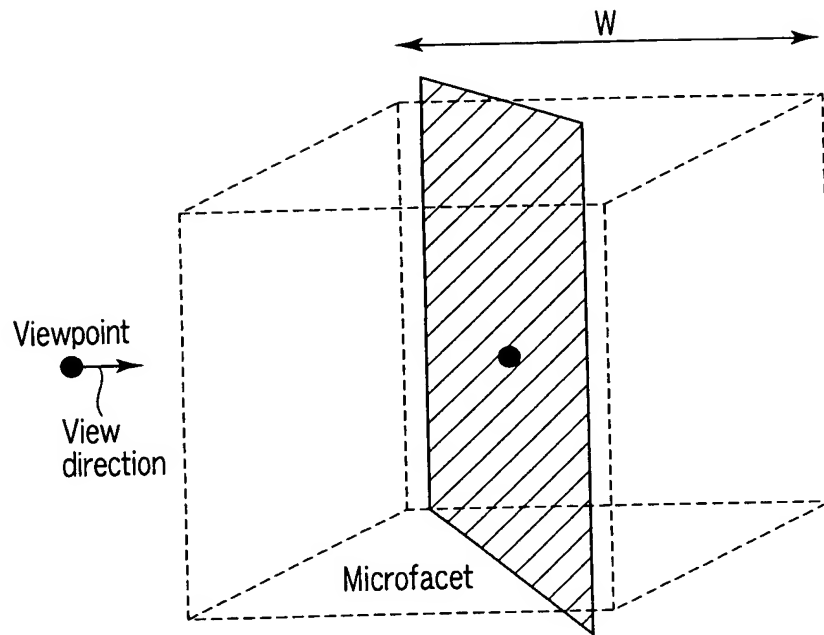


FIG. 3

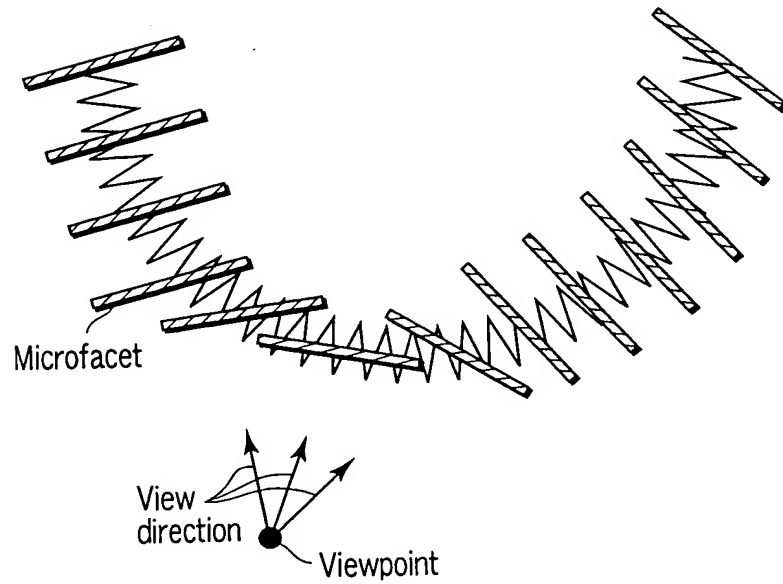


FIG. 4

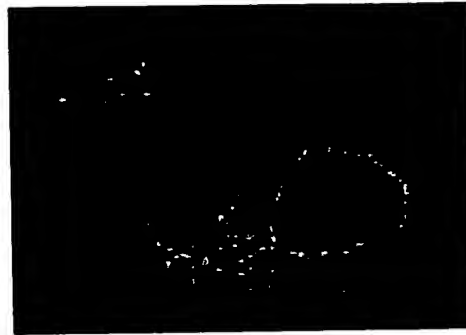


FIG. 5C



FIG. 5B



FIG. 5A

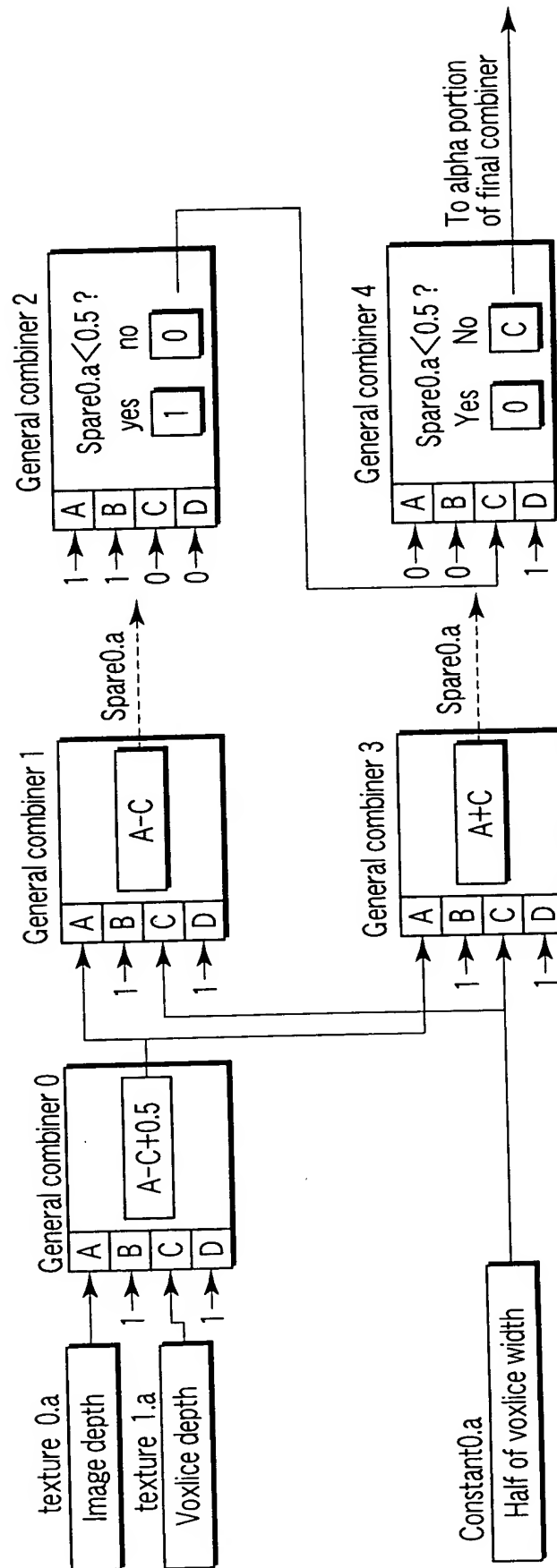


FIG. 6

Bill-board microfacet

Fixed microfacet

Distance from viewpoint dv

View direction θ

Viewpoint position

Δu

Da

Db

$\text{diff } \Delta d$

photographing position

FIG. 11

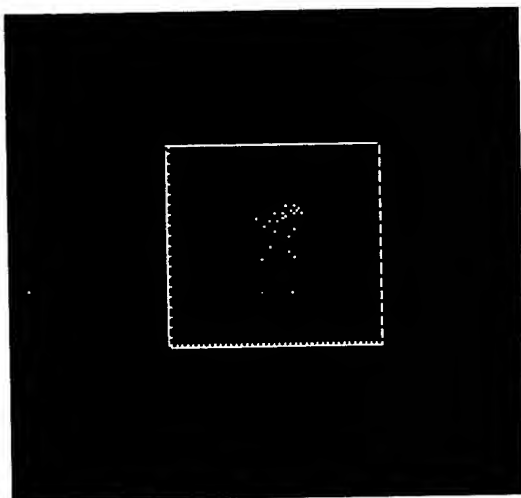


FIG. 8A

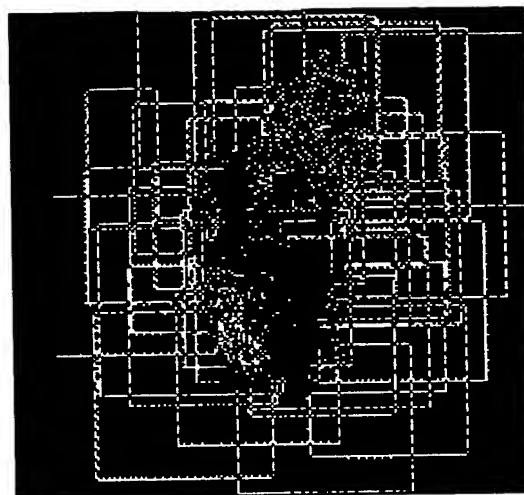


FIG. 8B

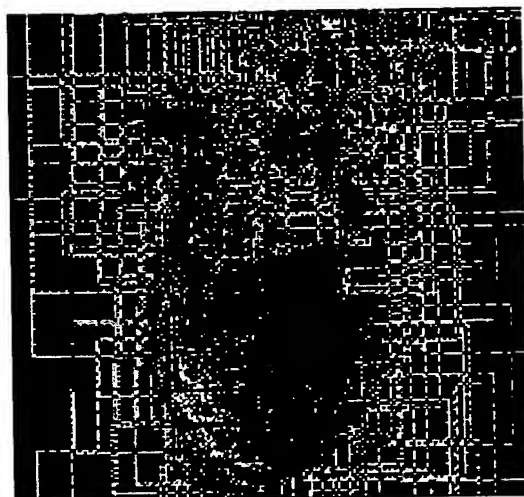


FIG. 8C



FIG. 8D

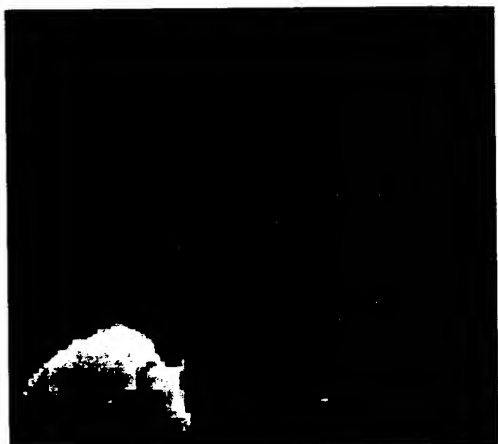


FIG. 9A

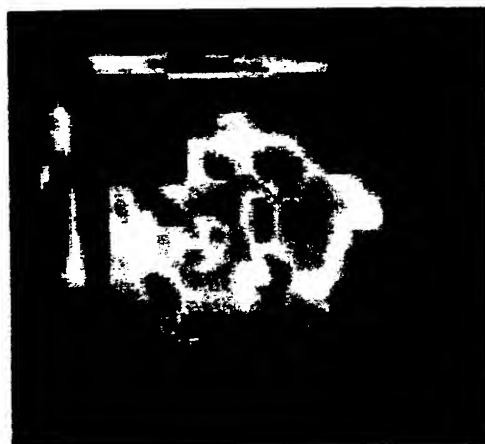


FIG. 9B



FIG. 9C

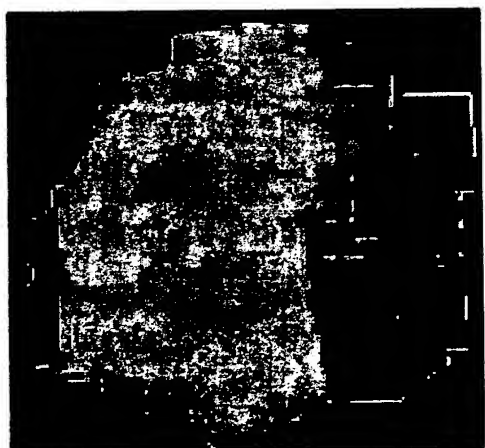


FIG. 9D

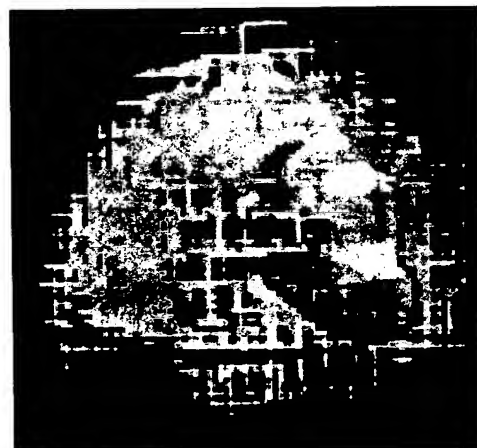


FIG. 9E



FIG. 10B

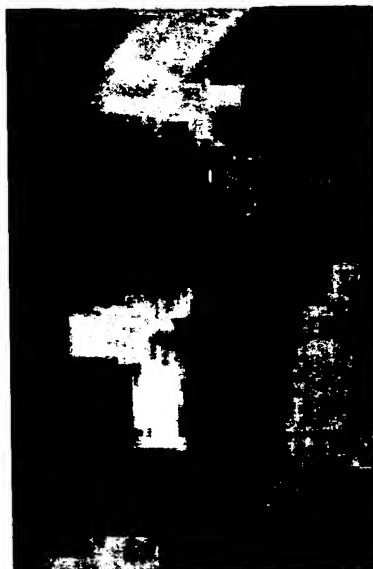


FIG. 10D

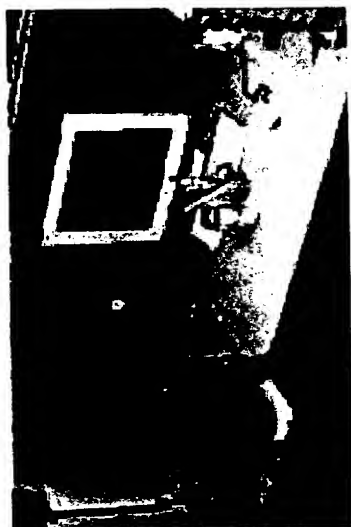


FIG. 10A

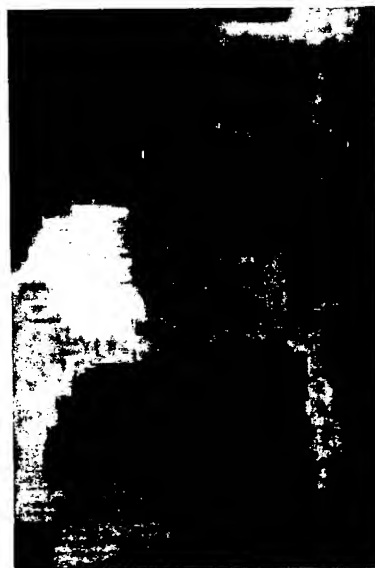


FIG. 10C

FIG. 12A

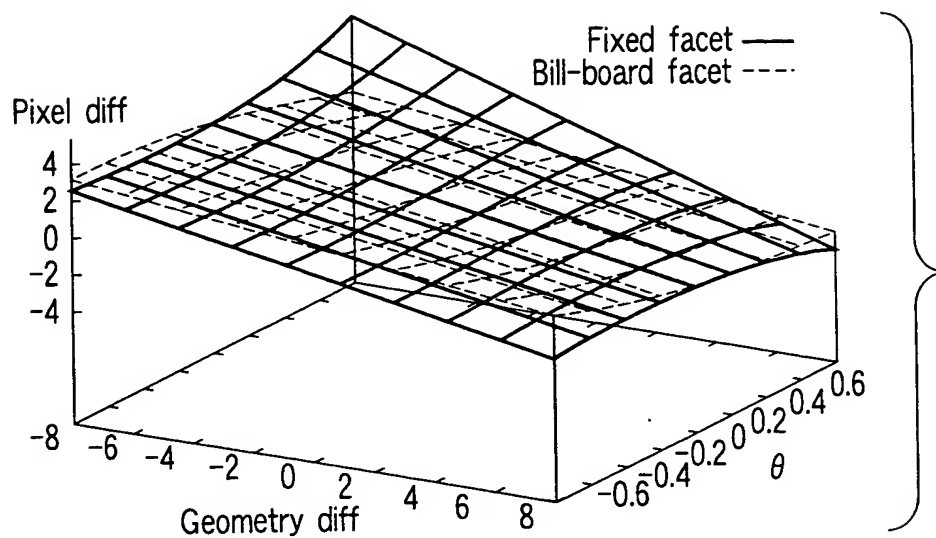


FIG. 12B

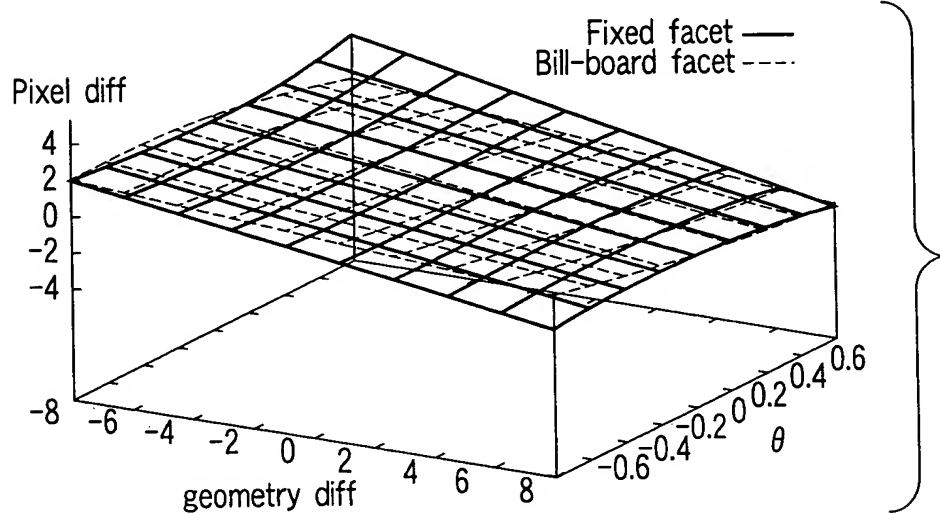
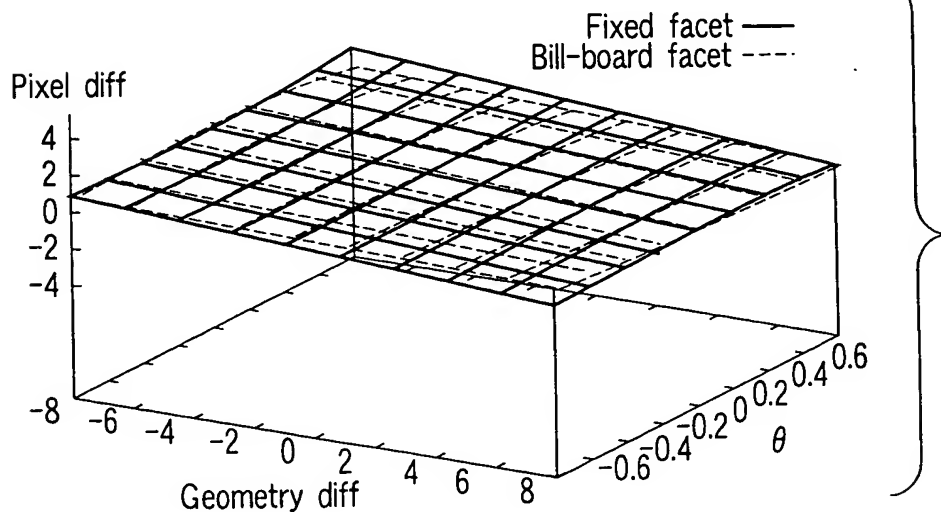


FIG. 12C



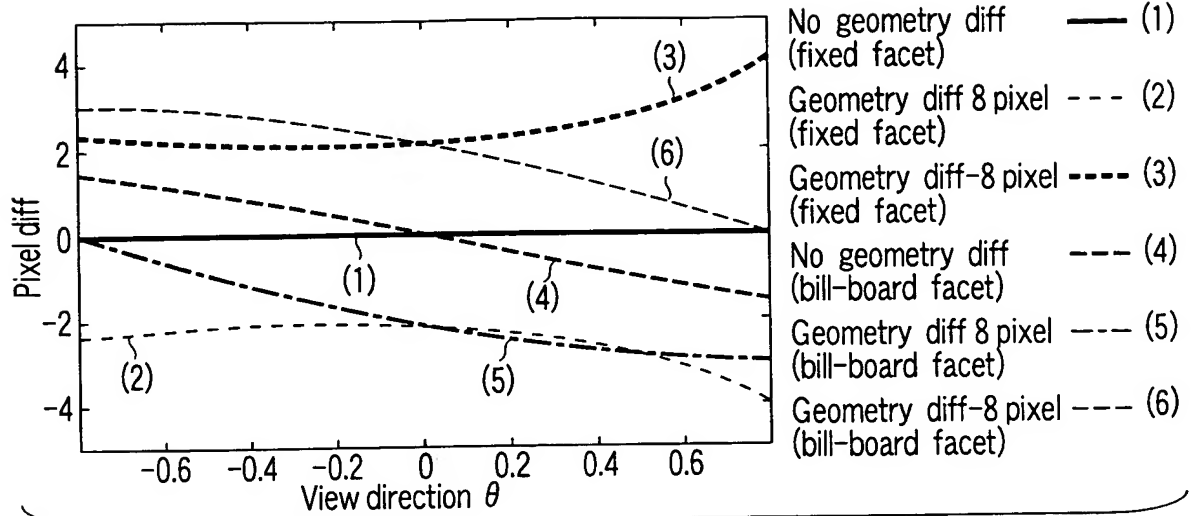


FIG. 13A

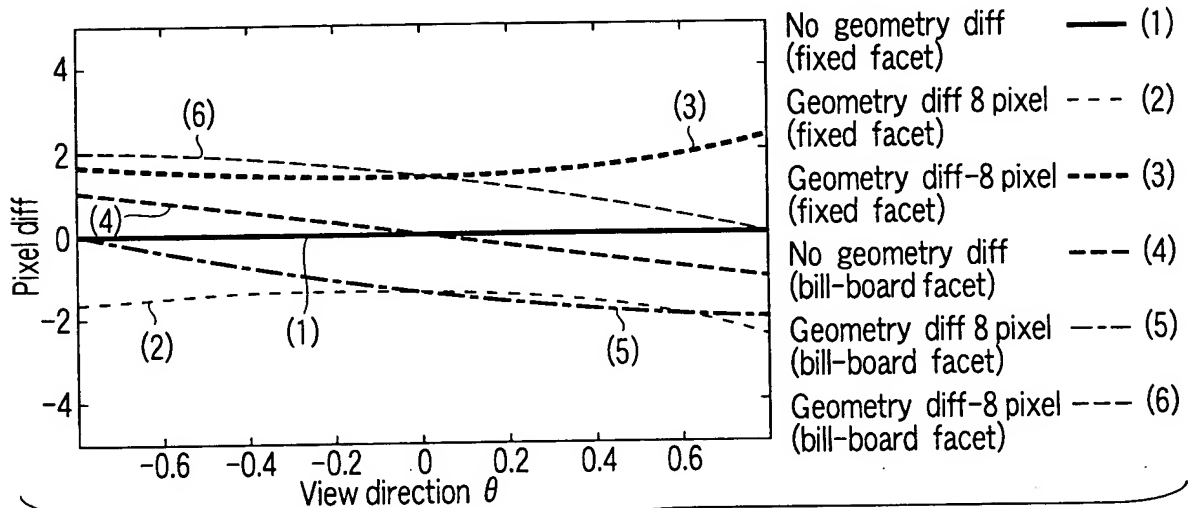


FIG. 13B

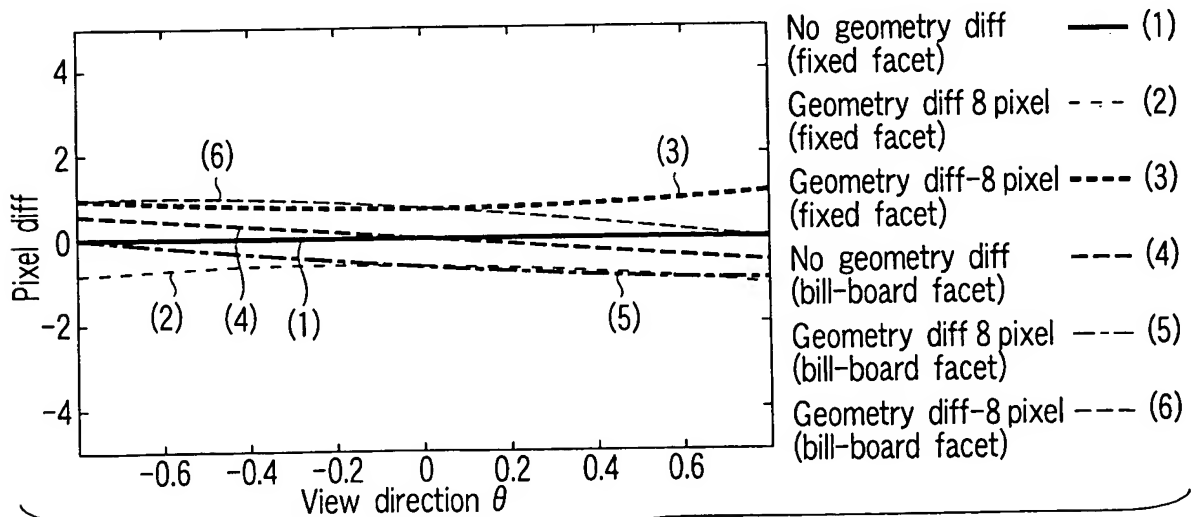


FIG. 13C